

	Ch	oose the correct answ	er:	
	0	Ecologists study the flow	of Energy in difficult Eco	osystems such
		a. north pole	b. bottom of oceansd. a & b	
		c. forests is (are) exam	ple (s) of biofuel.	
	0	a. Petroleum	b. Coald. Natural gas	
		c. Corn Curiosity is the most famo	on mai	rs.
	6	 a. Application 	d Pocket	
	4	c. Robot Car seat-belt used to ke	ep the body of drive	r from moving
		a. upward c. backward	b. downwardd. forward	
2	Wı	rite the scientific term	:	II. La and boat
	0	It is a gas region at the ed	ge of the sun that emit	()
	2 3	The input energy in calcu Energy is neither created	lator. nor destroyed but it c	an be changed.
	0	A heavy steel ball swinging	ng on a cable.	()
3	Co	mplete the following:		
	0	Spacecraft needs more the Electric iron changes	an month energy to	s to reach mars. energy.
	6	Solar cars are		



	0-44	-4
(4)	Batteries	store

energy and used to operate



- Charcoal is made up of grass, corn or wood chips.
- Electric vehicles cause climate changes.
- Any energy chain ends with the sun.
- The input energy in the solar cell is electric energy.

Mention the input and output energies of the following







- 6 What meant by:
 - Renewable source of energy
- Give reason for:
 - People use machines.
- What is the importance of:
 - Green house:



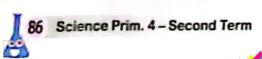
1	C	hoose the correct answ	rer:	
	1	The amount of	is limited on the ear	rth.
		a. biofuel	b. fossil fuel	
		c. a & b	d. no correct answers	i
	2	Modern wind mill is	than old wind	mill.
		a. taller	b. shorter	
		c. heavier	d. no correct answer	
	3	Sound energy is produced	d from all the following	g devices except
		•		
		 Cellular phone 	b. TV	
		c. Radio	d. electric iron	
	4	The correct arrangement	for generating electric	city by the wind
		energy is		
		a. Sun – wind – electric lin	es – wind mills - house	S
		b. Sun – wind – wind mills		
		c. Sun – wind mills – electr		
		d. Sun – wind mills – wind	– electric lines - house	S
2	W	rite the scientific term	,	
	1	A heavy steel ball swinging	g on a cable.	()
	2	A device used to light house	ses.	()
	3	The input energy in hand b	oell.	()
	4	It burns inside car engine t	o make the car moves.	
				()



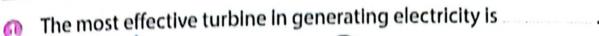
	Model Ex
4	3 <u></u>

Complete the following:	
① Truck causes damage than the	car.
Mair dryer changes energy	to
and energies.	
Solar cars don't cause	
and are non-renewable	sources of energ
Correct the underline words:	Tergy.
Solar vehicles need gas stations.	(,
Coal is used to operate the gas oven.	
6 Any energy chain ends with the sun.	(
Kinetic energy is lost during collision.	(
The following figure represents a solar he	ater:
 ① The input energy is	
You look directly to the sun for a long time.	
What is the importance of: Seatbelt	
2 Dams	





Choose the correct answer:



a.





c.



d.



All the following are renewable sources of energy except

a. corn

b. wood

c. petroleum

- d. grass
- 6 Heat energy is in solar heater.
 - a. consumed

b. produced

c. lost

d. destroyed

When a hits a person, he may be injured only and survive.

a. train

b. truck

c. car

d. bike

Write the scientific term:

To get it, it requires removal of forest and cutting tree.

1																							١	1
١	•	•	•	•	•	•	•	٠			•	•	•	•		•	٠	•	٠			•	J	,

Very tiny organisms, smaller than the head of a pin.

•																	١
		٠	٠				٠		٠						٠		4



Model	Fran
The second second	

- Operation Device used to transfer images and sounds.
- The input energy of the calculator.

Complete the following:

- Air bag is made of thin material folded into the steering wheel.
- o and are examples of fossil fuel.
- When a player hits the ball with a bat, the speed of the ball in the direction.
- Batteries store energy and used to operate

Correct the underline words:

- The surface of the sun is solid.
- When fuel burns inside a car, the car stops.
- Solar vehicle needs to be charged.
- Electricity transfer to cities through thin wires.

Complete the following table:

Device	Input Energy	Output energy
Motor		
Dynamo		



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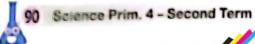
6	WI	nat meant by:
	_ Pl	notosphere
7	Giv	e reason for:
	– Pe	etroleum is a non-renewable source of energy.
		anno de la seconda de la constitución de la constit
(3)	W	nat is the importance of:
	0	Air bag:
	2	Fossil fuel:





	1) 5	hoose the corre	ct answer:	
	•	The surface of th		
		a. sun sphere	 b. gaseous sphere 	
		c. photosphere	d. ionosphere	
	•	cor	ntains chemical energy.	
		 Solar heater 	b. Batteries	
		 Radio 	d. TV	
	3	Ethanol is produc	ced from	
		a. grass	b. corn	
		c. coal	d. a & b	
	4	Heat and light e	nergies transfer from space to	us in a form of
		curved lines	b. waves	
		c. zigzag lines	d. circles	
2	<u>w</u>	rite the scientif	ic term:	
	0	It consists of large	number of small solar cells.	(
	2	The input energy		(
	6		swinging on a cable.	(
	0		oduced from burning fossil fue	el. (
(3)	Co	mplete the follo	owing:	
	1	Sun consists of	different gases such as	an
	2	prod	uced from the decomposition	of algae.
	3	Solar vehicles don	't need or	
	4	Solar energy cause	es air and wind	



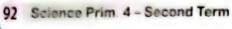


	Co	rrect the underlined words	•	
(1)	0	All devices depend on renewal	ole sources of energy.	
	0	The chemical structure of water		1
	3	Charcoal is produced from the	decomposition of tree remains.	,
	4	After collision, the air bag inflat	t es fast. ()
5	W	nich figure represents more	e severe damage and why?	
6		0 3000	www.Cryp2Day.com aclub apole Elypsia kooa	1
		Figure (1)	Figure (2)	
6	WI	nat will happen when:		
	– W	hen the ball of newton cradle is	raised up	
				•••
7	Wŀ	at is the importance of:	,	
	1	Curved mirrors in solar oven.		
	1	Curved mirrors in solar oven.		•••
	1	Curved mirrors in solar oven. T.V		•••



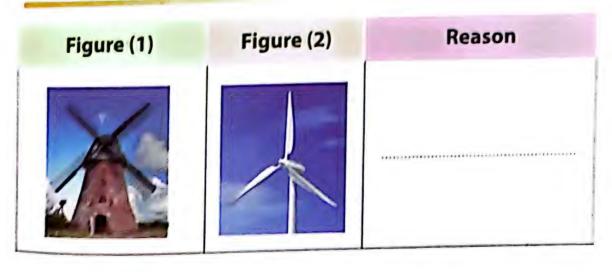
1 Choose the correct	t answer:	
Ocal is the source	of energy in	
a. gas oven	b. fire place	
c. petroleum oven	d. solar heater	
	at the	e top of slopes.
Water of rivers stoa. Kinetic energy	b. Potential energy	
c. Electric energy	d. Light energy	
Slow objects cause		
	nat can't be repaired	
 great damage th 		
c. small damage th		
 small damage th 	at can't be repaired	A 4:11:
The distance between	een earth and mars is	Million
kilometers.		
a. 54	b. 55	
c. 44	d. 45	
Write the scientific	term:	
It is the moment of	crashing of two objects tog	gether.
		(
1t is the energy that	will not run out faster than	consuming it.
		.,
63 Energy neither creat	ed nor destroyed.	(
It is made up of gras	s, corn or wood chips.	(





3.	Co	mplete the following:	
	0	Cars stop, when the fuel	
(0	and	are examples of
		blofuel.	
(0	During collision, The air bag	
(4	The input energy in running iser	nergy
A	Co	rrect the underline words:	
٠ س		heavy objects always cause damage less than	light objects.
•	0		(,,,,,,)
	0	Burning of biofuel cause air pollution & globa	l warming.
•	0		()
	3	Increasing the number of blades is better.	()
	4	dynamo changes electric energy into kinetic e	energy.
			(

& the reason:









Law of conservation of energy

- What will happen when:
 - The sun disappears suddenly
- B Give reason for:
 - Any energy chain starts with the sun.

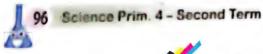


	ch	100se the correct ar	nswer:
	0		ples of renewable source of energy except
		a. solar energy c. coal	b. wind energy d. water falls
	0		xample (s) of biofuel.
		a. Petroleum c. coal	b. cornd. Natural gas
	6	production productions of energy.	ces heat and depends on non-renewable
		a. Electric heaterc. Gas oven	b. Solar heaterd. No correct answer
	0	Robots and vehicles o a. electric charger c. solar panels	n mars operated by b. long-term batteries d. b & c
2	Wı	rite the scientific te	erm:
	0	It helps farmers plant	ing crops that need hot weather in winter.
	2 3 4	It burns inside a car en	ergy in difficult ecosystems. () gine to make the car moves. () energy into electric energy. ()
3	Col	mplete the following	ng:
	0	When water of rivers	falls from high slopes, potential energy
	0	Solar cells change	energy to energy.





arn		
cars are light in weight.		
, and	are exam	ples of
rrect the underlined words:		
Electric vehicles cause climate change.	(
The outcoming energy of battery is chemical	al energy. (
Fossil fuels are extracted from mountains.	(
Petroleum is an example for biofuel.	(
dy the following figure then complete	e the follow	wing:
The energy transfer from the to the		
t is the importance of:		
olar energy		
	cars are light in weight. and fossil fuel. rrect the underlined words: Electric vehicles cause climate change. The outcoming energy of battery is chemical. Fossil fuels are extracted from mountains. Petroleum is an example for biofuel. dy the following figure then complete. The boy uses a to hit the ball. The energy transfer from the to the directions. reason for: feel warmth of the sun at night. tis the importance of:	cars are light in weight. , and are example for solution are example for biofuel. The outcoming energy of battery is chemical energy. Fossil fuels are extracted from mountains. Petroleum is an example for biofuel. dy the following figure then complete the following to the hit the ball. The energy transfer from the stothe. The speed of the ball in sin directions. Treason for: feel warmth of the sun at night.



0 5	hoose the correct an	swer:	
0	Produced	from the decomposition o	f plants or trees.
	a. Petroleum	 b. Natural gas 	
	c. Coal	d. Benzene	
0	As object's speed incre	ases, Its kinetic energy	
	a. increases	b. decreases	
	c. remains constant	d. no correct answer	
63	Solar heaters are place	d on	
	a. streets.	b. markets.	
	c. bathroom.	d. top of building.	
4	To make batteries work	again, we must	
	a. charge them	b. change them	
	c. burn them	d. a & b	
3 10/	wide also colorately as we		
<u>v</u>	rite the scientific ter	m:	
1	It is a gas region at the	edge of the sun that emit	s light and heat.
			()
2	The main source of fuel.		()
3	It absorbs the energy of	the car during collision.	()
4	Energy that consumed f		(
	- reigy that consumed t	Tom solar meater.	
Col	mplete the following	:	
n	is used in f	ire place to produce heat	eneray
2			
	is the energ	gy produced due to friction	on.



Mode	ol Exar	n			
	3		makesin weight		n it hit by racket
4	Co	rrect the unde	rlined words:		
	1	The wind rotates	the blades of wate	rmills.	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
•	0	<u>Coal</u> is the oldest	t fuel that used all o	ver the work	d. (
	3	A crash investiga	tor sees a car crash	as a joke .	(
	4	When fuel runs o	ut, the car moves.		(
5	WI	nat is the type	of fuel:		
		Figure (1)	Figure (2)	قدياطار والمراجعة المراجعة الم	موقع مذكرات موقع مذكرات (2)
6	W	nat meant by:			
	– Re	enewable source o	of energy		
7	Ho	w to reduce bu	rning fossil fuel:		



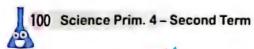
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a (h	ose the correct an	swer:	
7			on renewable source c	of energy.
6	9	a. Petroleum oven	b. Gas oven	
		c. Solar cell	d. Flash light	
	2	From the disadvantage	es of over use of fossil f	uel is (are)
•	9	a. cutting trees	b. removal of fore	
		c. air pollution	d. a & b	
	3	used to r	nove things.	
Ì		a. Dynamo	b. Motor	
		c. Hair dryer	d. electric heater	
	4	The car with speed	has the higi	nest kinetic energy
		a. 100 km/h	b. 80 km/h	
		c. 60 km/h	d. 40 km/h	
2	W	rite the scientific to	erm:	
	1	The vehicle that does	n't need any fuel or ele	ctricity.
				(
	2	It is the energy produ	ced from burning fossi	l fuel. (
	3	The amount of it on t	he earth is limited.	()
	4	The incoming energy	in electric heater.	(
3	C	omplete the followi	ng:	
	1	When two cars collid	e in thedl	rection, the damage
		will be less severe.		
	2) is the er	nergy stored in food.	



Mod	el Exar	n			
	3	Coal is used in			xy.
4	Co	rrect the underlin			
	0	The output energy in	a calculator is th	e solar en	
	2	When a car hits a boy	, he will survive.		(
	3	wood is a a non-rene	wable source of e	energy.	(
	4	Burning fuel produce	s light energy.		(
	- D	uring running: emical energy	Cinetic energy	الطباعة الطباعة	Cryp2Day.com قوقع مذكرات جاهزة energy
6		at meant by:			
7		e reason for: nen you touch an elec	tric lamp, you fee	l hot.	





	Chi	pose the correct answ	ver:	
	0	Modern windmills are		dmills.
	•	a. taller	b. shorter	
		c. heavier	d. no correct answer	
		Heat energy is	in electric Iron.	
	0	a. consumed	b. resulted	
		c. lost	d. destroyed	
	0	is the fuel	made of living organis	ms that can be
	6	planted.		
		a. Fossil fuel	b. Biofuel	
		c. Petroleum	d. Gasoline	
	0	collision, the air bag deflates fast.		
	4	a. Before	b. During	
		c. After	d. no correct answer	
2	Wı	rite the scientific tern	n:	
	1	Vehicles that have batteri	les must be charged.	()
	0	A famous game in which		with a bat.
	6	,,,a,,,eas games		()
	3	The amount of it on the e	earth is limited.	()
		It helps farmers planting		eather in winter.
	4	it neips farmers planting	Ci Opo andone	()
3	Co	mplete the following:		
	0	It is better to	the number of blades	Inside turbine.



		A spacecraft needs more than Month to reach mars,
	2	A spacecraft needs more than you approach your hand to
	3	electric lamp.
	4	The rate of formation of petroleum is than the rate of its consumption.
4	Co	errect the underline words:
	1	Motor changes kinetic energy into electric energy.
		()
	2	Any energy chain ends with the sun.
	3	To get fossil fuel , it requires cutting trees & removal of forests.
		(
	4	We must light up electric bulb and electric devices if we don't
		need it.
5	Mei	ntion the advantages and disadvantages of solar vehicles:
		The second secon
	-6	Advantages
•	•••••••	
•		
	••••••	
6	Wh	at is the importance of:
	– vvi	recking ball
	•••	
	•••	
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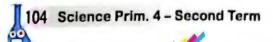


Choose the correct answer:

- Fast objects cause
 - a. great damage that can be repaired
 - b. great damage that can't be repaired
 - c. small damage that can be repaired
 - d. small damage that can't be repaired
- The surface of the sun
 - a. is solid such as moon
 - b. is gas such as moon
 - c. isn't solid such as moon
 - d. isn't gas such as moon
- Which of the following statements is correct?
 - a. Energy can't be changed from one form to another.
 - b. Energy can be changed from one form to another.
 - c. Energy may be lost or destroyed.
 - d. Energy can be created.
- is the oldest fuel used all over the world.
 - a. Coal
 - b. Wood
 - c. Petroleum
 - d. Natural gas



2	W	rite the scientific term:
	0	It is the energy that will not run out faster than consuming it.
	2	The energy produced due to friction.
	3	It is used in cars to keep the driver's body from moving forward
		during collision.
	4	Energy that consumed from hand bell.
3	Co	mplete the following:
	1	is used to knock down parts of a building.
	2	Electricity transfers to cities through
	3	The wheels of the car when fuel burns inside car
		engine.
	4	and are examples of
		fossil fuel.
4	Co	rrect the underline words:
	1	Fuel powered-cars need to be charged.
	2	Life continues on the earth in the absence of the sun.
		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	3	Charcoal is made up of grass, corn or wood chips.()
	4	Burning of biofuel cause air pollution & global warming.
		(minure::==(0)



Complete the following table:

Device	Source of Energy	Kind
Flashlight		
Solar heater		
Fire place		

6 Compare between:

Device	Biofuel	Fossil fuel
Туре		
Importance		
Disadvantages		
Examples		

Wodel Exams

Model Exam

- Choose the correct answer:
- (2) c

- Write the scientific term:
 - Photosphere
 - Solar Energy
 - 3 Law of Conservation of Energy
 - Wrecking Ball
- Complete the following:
 - 6
 - electric heat
- 63 light
- A chemical devices (toy cars)
- Correct the underlined words:
 - 1 Ethanol
 - Fuel-powered
 - starts
- 4 output
- Mention the input and output energies of the following:

Figure	Input Energy	Output Energy
Hair dryer	Electric	Heat – Sound – kinetic
Electric lamp	Electric	Light – Heat
Playing football	Chemical	kinetic

Mhat is meant by:

- Renewable Source of Energy; It is the energy that will not run on faster than us consuming it.
- Give reason for:
 - To make their life easier and get land done faster.
- (3) What is the importance of:
 - -It helps farmers grow plants need warm weather in winter.

Model Exam 2

- Choose the correct answer:
 - n b

- Write the scientific term:
 - Wrecking Ball
 - 2 Electric Bulb
 - Kinetic Energy
 - 4 Fuel
- Complete the following:
 - more.
 - 2 electric sound heat kinetic
 - Climate changes
 - Petroleum Natural gas
- Correct the underlined words
 - ¶ Fuel-powered
 - fireplace

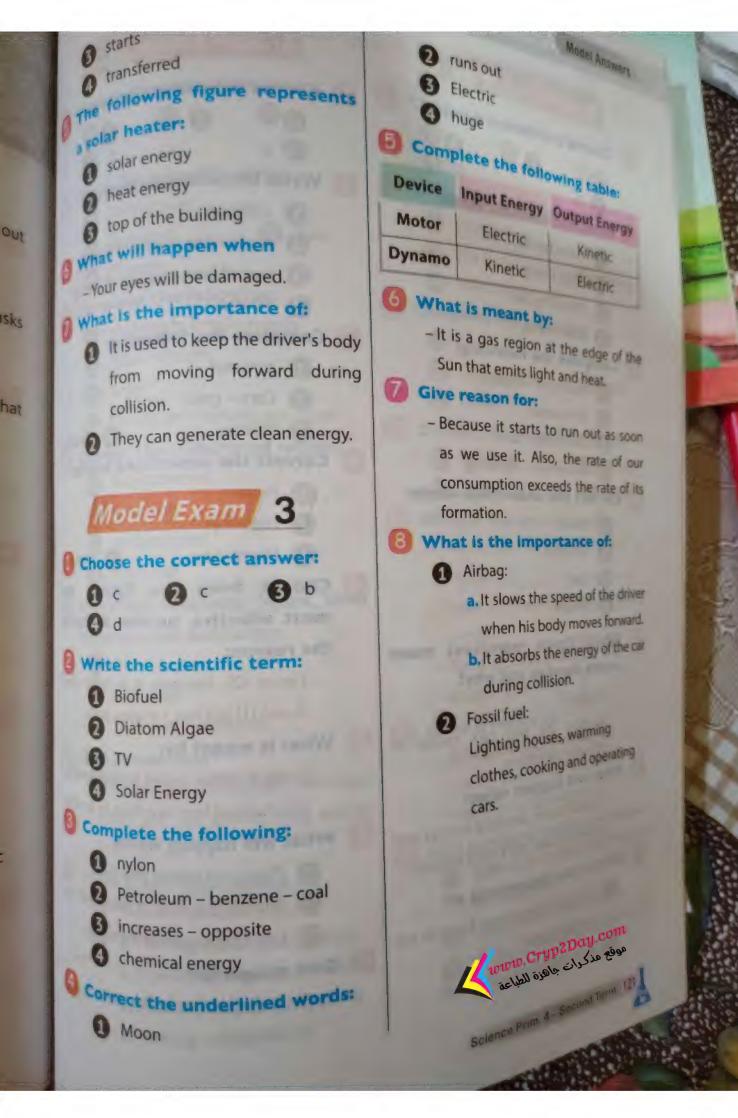
- 3 starts @ transferred of the following figu
 - a solar heater:
 - 3 solar energy
 - 2 heat energy
 - 3 top of the build
 - What will happen - Your eyes will be d
 - What is the impo
 - 1 It is used to kee from moving collision.
 - ? They can gene

Model Ex-

- Choose the corr

- Write the scien
 - Biofuel
 - Diatom Alga

 - 4 Solar Energy
- Complete the
 - 1 nylon
 - 2 Petroleum
 - 3 increases -
 - 4 chemical e
- Correct the u
 - 1 Moon



Model Answers

Model Exam 4

Choose the correct answer:

2 Write the scientific term:

Solar Panels

Solar Energy

Wrecking Ball

Heat Energy

Complete the following:

1 hydrogen – helium

petroleum

electricity - fuel

4 movement - blowing

Correct the underlined words:

Some

different

Coal

4 deflates

6 Which figure represents more severe damage and why?

- Figure (2)

Because the two cars collide in opposite directions.

What will happen when:

- The ball stores potential energy and it doesn't have any kinetic energy.

What is the importance of:

1 To direct the sunrays towards the cooking pans.

To transfer light and sound.

Model Exam

Choose the correct answer

2) b

Write the scientific term:

Collision

Renewable Source of Energy

Law of Conservation of Energy

Ethanol

Complete the following:

1 runs out

Corn - grass - wood

3 inflates

Correct the underlined words

more

fossil fuel

3 Decreasing

(2)

com

1

(5) Choose from the figures the most effective turbine & clarify the reason:

> - Figure (2), because it is taller than figure (1) & it has 3 blades only.

What is meant by:

- Energy is neither created nor destroyed by it is changed from one form to another

What will happen when:

1 Plants will wither and die.

Animals that feed on plants will die

3 Life disappears on the earth.

Give reason for:

- Because the Sun is the main source of energy.

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Wel Exam 6 or the correct answer: 0 b on the scientific term: @ Grenhouse ↑ Ecologists

O Dynamo rolete the following:

a danges to kinetic energy

a solar - electric

§ Solar

nical

OF-

che

rify

han

ישם ו

ther-

die.

unce

A Petroleum - natural gas - coal

ared the underlined words:

A Fuel-powered

Incoming

anderground

fossil fuel

the following figure, then explete the following:

(E) They don't seed on 3d (

bat - ball

increases - different.

he reason for:

lease the atmosphere envelope, saler and soil absorb heat energy ism the sun.

Most is the importance of:

It is used to move objects.

Planting inside greenhouses

b. Operating irrigation machines

c Warming houses d. Cooking e. Heating water

Model Exam 7

Choose the correct answer:

0 c 2 a 3 d

Write the scientific term:

1 Photosphere

7) The Sun 3 Airbag

4 Solar Energy

Complete the following:

1 Coal

2 Heat energy 3 light

4 louder

Correct the underlined words:

1 windmills 2 Wood

3 puzzle 4 stops

What is the type of the fuel:

- Figure (1): Renewable source of energy.

- Figure (2): Non-renewable source of

- Figure (3): Non-renewable source of energy.

6 What is meant by:

- Renewable Source of Energy: It is the energy that will not run out faster than us consuming it.

How to reduce burning fossii fuel:

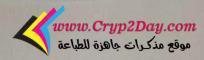
1 Walking or driving a bike instead of driving cars.

Using public transportations.

Turning off electric bulbs and electric devices if we don't need them.

Science Prim. 4 - Second Term [123]





hen answer

Model Exam 8

Choose the correct answer:

2 C

Write the scientific term:

- Solar Vehicle
- 2 Heat Energy
- 3 Fossil Fuel
- 4 Electric Energy

Complete the following:

- **same**
- Chemical energy
- 6 electric power stations
- 4 high

Correct the underlined words:

1 input 2 bike

3 Coal

4 heat

Arrange the following energy chains from the start to the end:







What is meant by:

- Solar panels

They consist of a large number of small solar cells. They change solar energy into electric or heat energies.

Give reason for:

- A part of the electric energy changes to heat energy. So you feel hot when you approach your hand to it.

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Model Exam 9

Choose the correct answer

2 b

Write the scientific term:

- 1 Electric Vehicle
- Cricket Game
- Fossil Fuel
- 4 Greenhouse

Complete the following:

decrease

6 hot

4 less

Correct the underlined words:

dynamo

2 starts

63 biofuel

4) turn off

Mention the advantages and disadvantages of solar vehicles:

Advantages

- 1 They don't need fuel.
- 2 They don't need electricity.
- 3 They don't cause climate changes.
- 4 They are light in weight.

The amount of energy it gets from the sun is smaller than what it gets from gasoline or electricity.

What is the importance of:

- It is used by construction workers to knock down parts of buildings.

Mode

1) Choose th

4

2 Write the

Rene Hea

Seat

Kine

Complet

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Pet

Correct

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Device

Flashlight

Solar

heater Fireplace Choose the correct answer:

Write the scientific term: Renewable Source of Energy

1 Heat Energy

3 Seatbelt

A Kinetic Energy

Complete the following:

Wrecking ball

2 huge wires

3 rotates

Petroleum – natural gas – coal

Correct the underlined words:

1 Electric cars

2 disappears

3 Ethanol

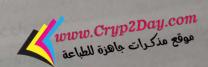
A fossil fuel

Complete the following table:

Device	Source of energy	Source of Energy Kind
Flashlight	Chemical energy	Non-renewable
Solar heater	Solar energy	Renewable
Fireplace	Coal	Non-renewable

6 Compare between:

P.O.C.	Biofuel	Fossil Fuel
Its type	Renewable	Non-renewable
	1. Lighting	It is
	houses	a renewable
	2. Warming	source of
Importance	houses	energy.
	3. Cooking	1921
	4. Operating	Section 12 house
	cars	
	It causes:	To get it, it
2007 (2005)	1. Air	requires:
Disadvantag	es pollution	. 1. Cutting tree
Jais	2. Global	2. Removal of
	warming	g. forests.
707	1. Petroleu	m 1. Wood
	2. Natural	2. Grass
Example	es gas	3. Corn
	3. Benzen	e 4. Wood chip
	4. Coal	



rs to

off

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